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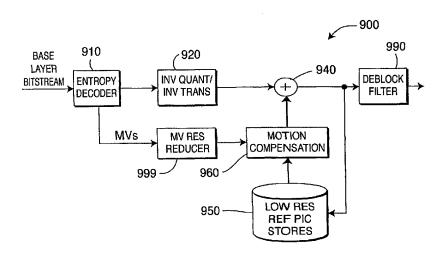
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(54) Title: COMPLEXITY SCALABLE VIDEO DECODING

(57) Abstract: A video decoder, a video decoding method, a video encoder and a video encoding method are disclosed. A video de-
coder for decoding a video bitstream for an image block includes a motion vector resolution reducer (999) and a motion compensator
(960). The motion vector resolution reducer is for receiving decoded high resolution motion vectors included in the video bitstream
and for reducing an accuracy of the high resolution motion vectors to correspond to a low resolution. The motion compensator, in
signal communication with the motion vector resolution reducer, is for forming a motion compensated high resolution prediction
using the reduced accuracy motion vectors. The video encoder for encoding scalable video comprises a motion compensator (1190)
for forming a motion compensated full resolution prediction and combining combining (1105) the motion compensated full reso-
lution prediction from an image block to form a prediction residual. The prediction residual is downsampled (1112) to form a low
resolution downsampled prediction residual and then coded (1115).

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*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*